

Organic Reaction Review

Write structural formulas for all organic compounds. State the type of reaction. Complete and balance the reaction. Name the products.

- propene + hydrogen \rightarrow
- cyclohexane + chlorine \rightarrow
- benzene + iodine \rightarrow
- ethanol + butanoic acid \rightarrow
- 2-pentene + bromine \rightarrow
- ethene + water \rightarrow
- chloroethane + sodium hydroxide \rightarrow
- propene + bromine \rightarrow
- chlorobenzene + chlorine \rightarrow
- ethanol + hexanoic acid \rightarrow
- 3-pentanol + oxygen \rightarrow
- propyne + (2 mol) iodine \rightarrow
- cyclohexene + water \rightarrow
- ethoxyhexane + oxygen \rightarrow
- 2-pentanol $\xrightarrow{\text{acid}}$
- diethyl ether + oxygen \rightarrow
- 3-methyl-1-cyclohexanol $\xrightarrow{\text{acid}}$
- 4-methyl-2-hexanol $\xrightarrow{\text{acid}}$
- naphthalene + iodine \rightarrow
- propane + (2 mol) iodine \rightarrow
- 2-hexene + water \rightarrow
- ethyl 3-methylbutanoate + oxygen \rightarrow
- benzene + oxygen \rightarrow
- cyclohexene + fluorine \rightarrow
- 2-bromo-1-hexanol + benzoic acid \rightarrow
- 3-pentyne + (2 mol) water \rightarrow
- 2,4-dimethyl-2-hexene + hydrogen bromide \rightarrow
- cyclopentane + fluorine \rightarrow
- 3-methyl-2-butanol $\xrightarrow{\text{acid}}$
- 3-chloroheptane + sodium hydroxide \rightarrow
- 2-bromo-2,3-dimethylpentane + potassium hydroxide \rightarrow
- chlorocyclohexane + sodium hydroxide \rightarrow
- 2,3,4-trimethylpentanoic acid + oxygen \rightarrow
- 2,3,4-trimethylpentanoic acid + methanol \rightarrow
- 3-hexyne + chlorine \rightarrow
- 3-hexyne + (2 mol) chlorine \rightarrow
- 3-chlorohexanoic acid + 1-propanol \rightarrow
- 5,5-dimethyl-2-hexene + hydrogen bromide \rightarrow
- 2-bromonaphthalene + chlorine \rightarrow
- 1-chlorocyclohexane + potassium hydroxide \rightarrow